

FIG. 1

FIG. 2(a)

602

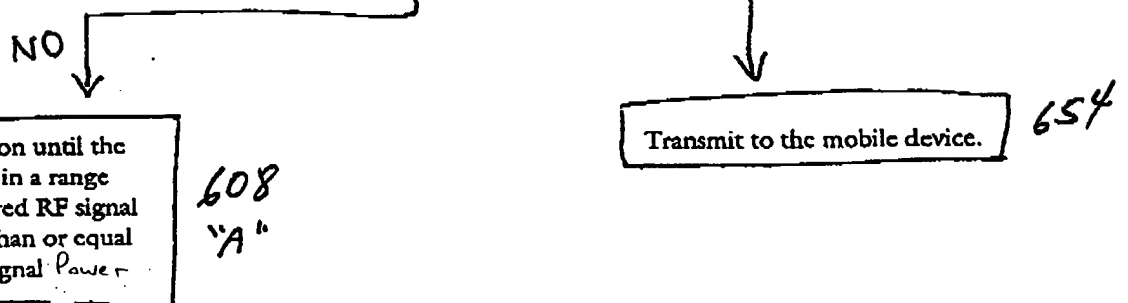
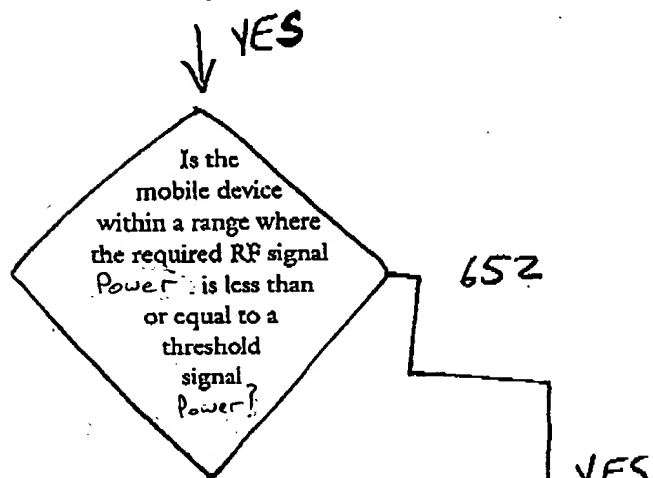
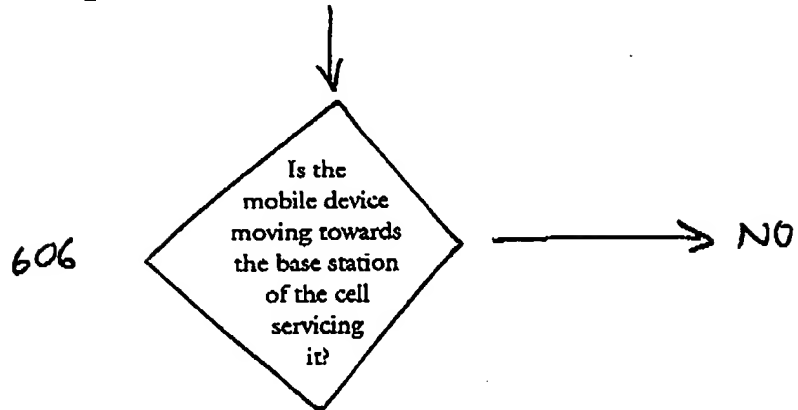


FIG 2(b)

602



"B"

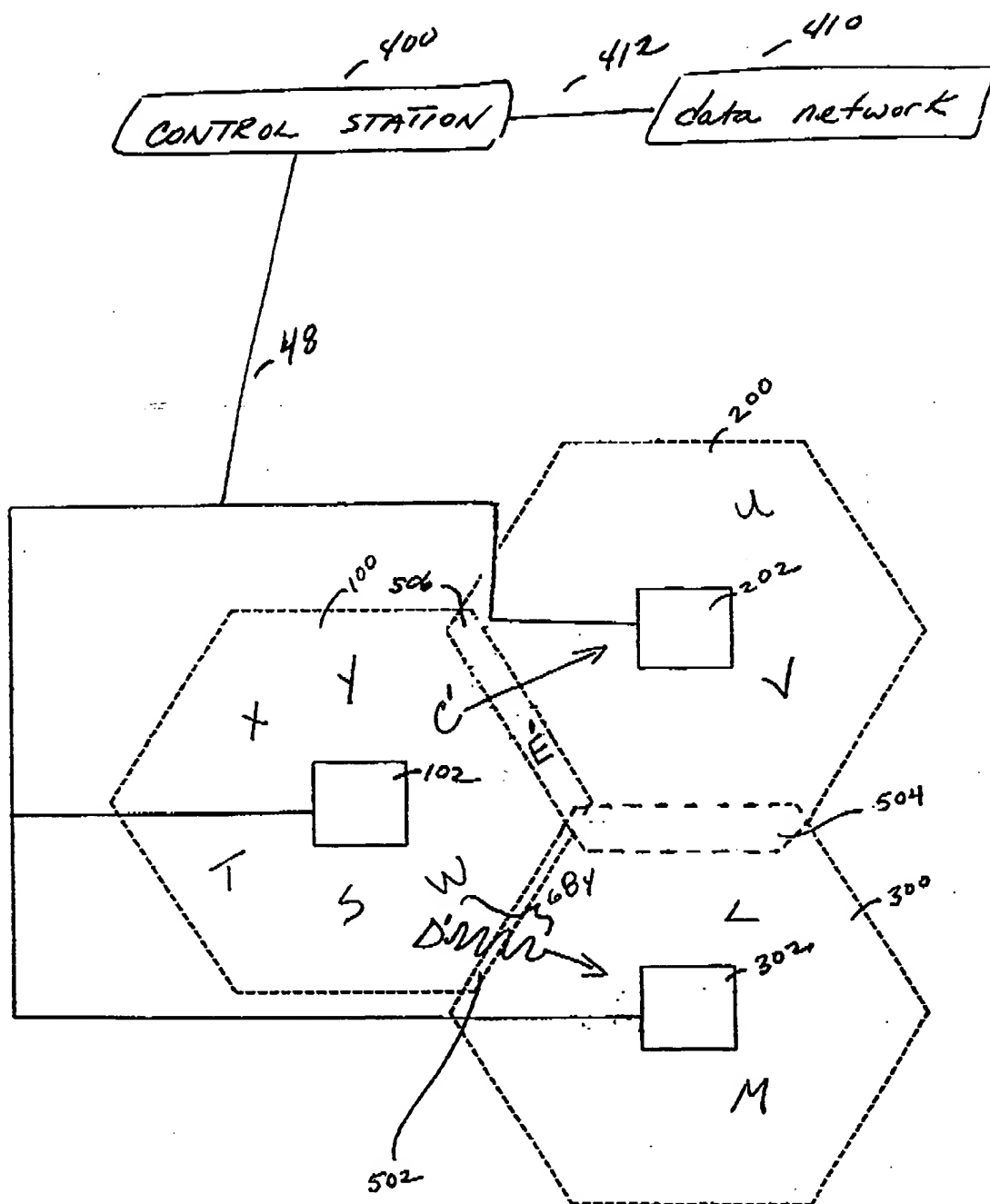


FIG. 3(a)

Acquire data to provide the location, speed and direction of a mobile device.

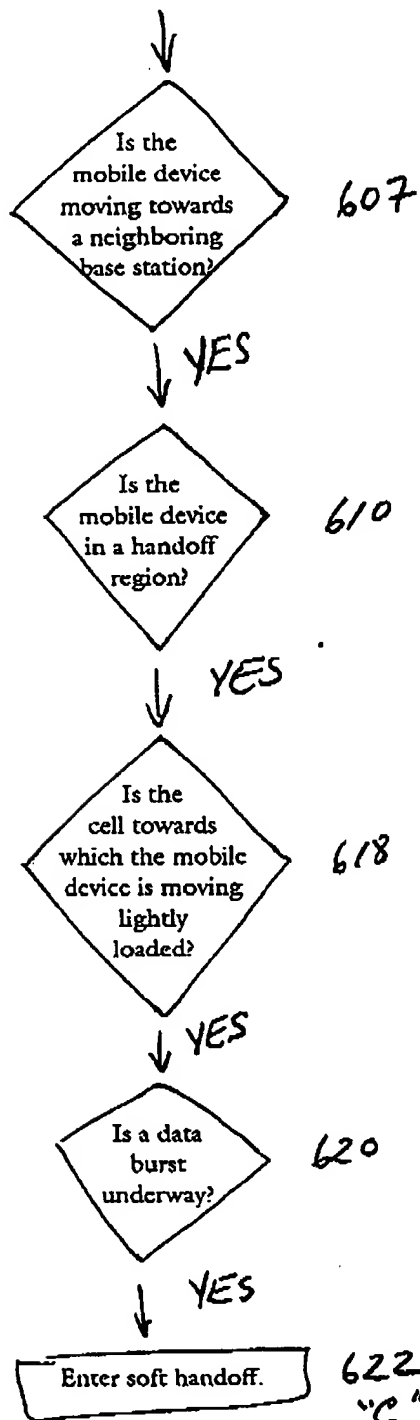


FIG. 3(b)

Acquire data to provide the location, speed and direction of a mobile device.

602

Is the mobile device moving towards a neighboring base station?

607

YES

Is the mobile device in a handoff region?

610

YES

Is the cell towards which the mobile device is moving lightly loaded?

618

NO

Is a data burst underway?

620

NO

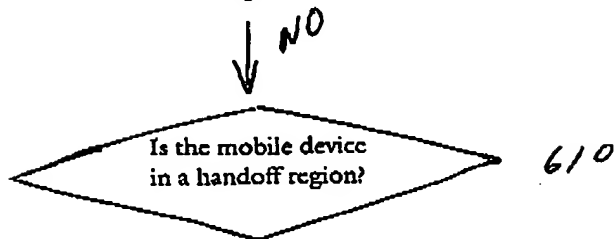
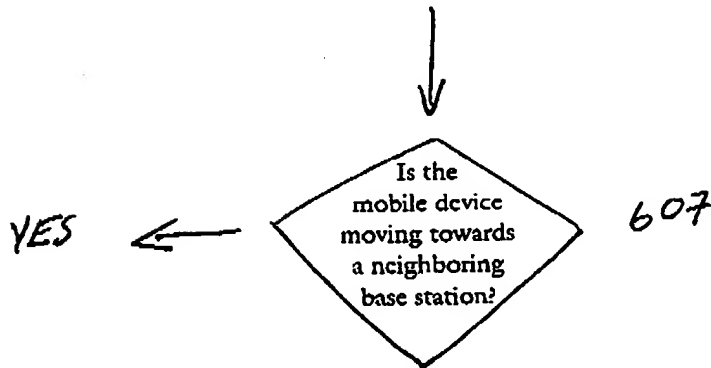
Delay transmission until the mobile device is in the cell towards which it is moving.

624
"D"

FIG. 3(c)

Acquire data to provide the location,
speed and direction of a mobile device.

602



Transmission from whichever
base station has a
lighter load or delay
if both are heavily loaded.

614
"E"

FIG. 3(d)

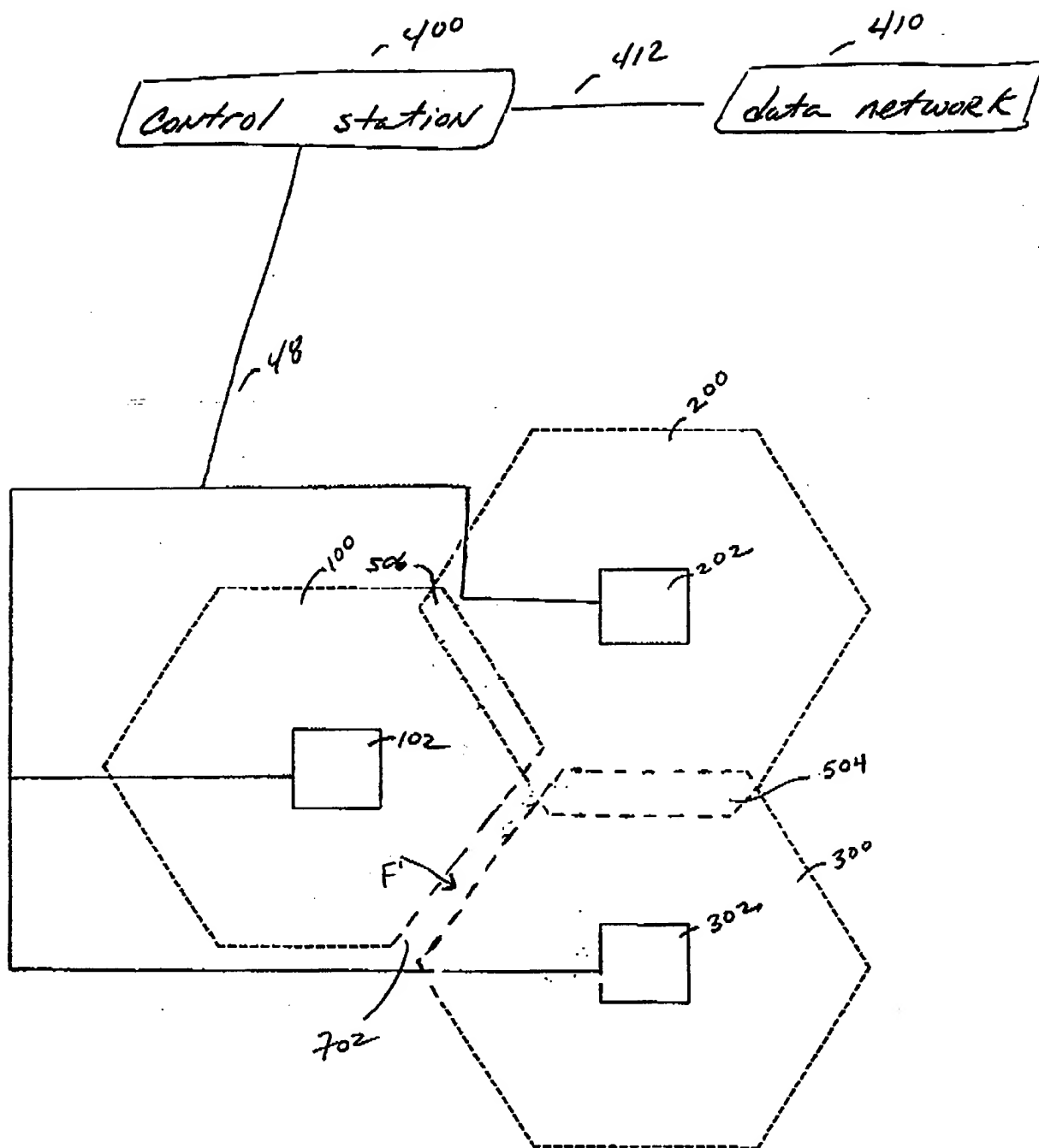


FIG. 4(a)

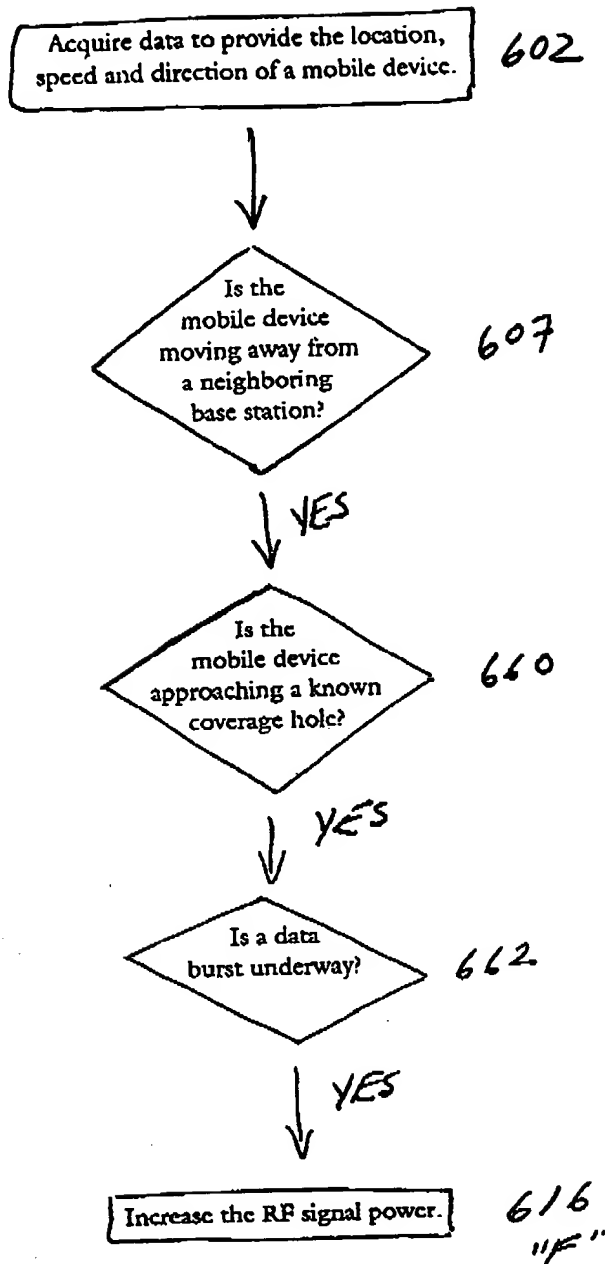


FIG. 4(b)

current
point in
time

Δ - maximum delay requirement

Lightly Loaded

2

Lightly Loaded

(time between occurrences when the base station is lightly loaded

FIG. 5(a)

current point in time

Δ - delay requirement

Lightly Loaded

 τ

Lightly Loaded

time between occurrences when the base station is lightly loaded

FIG. 5(b)

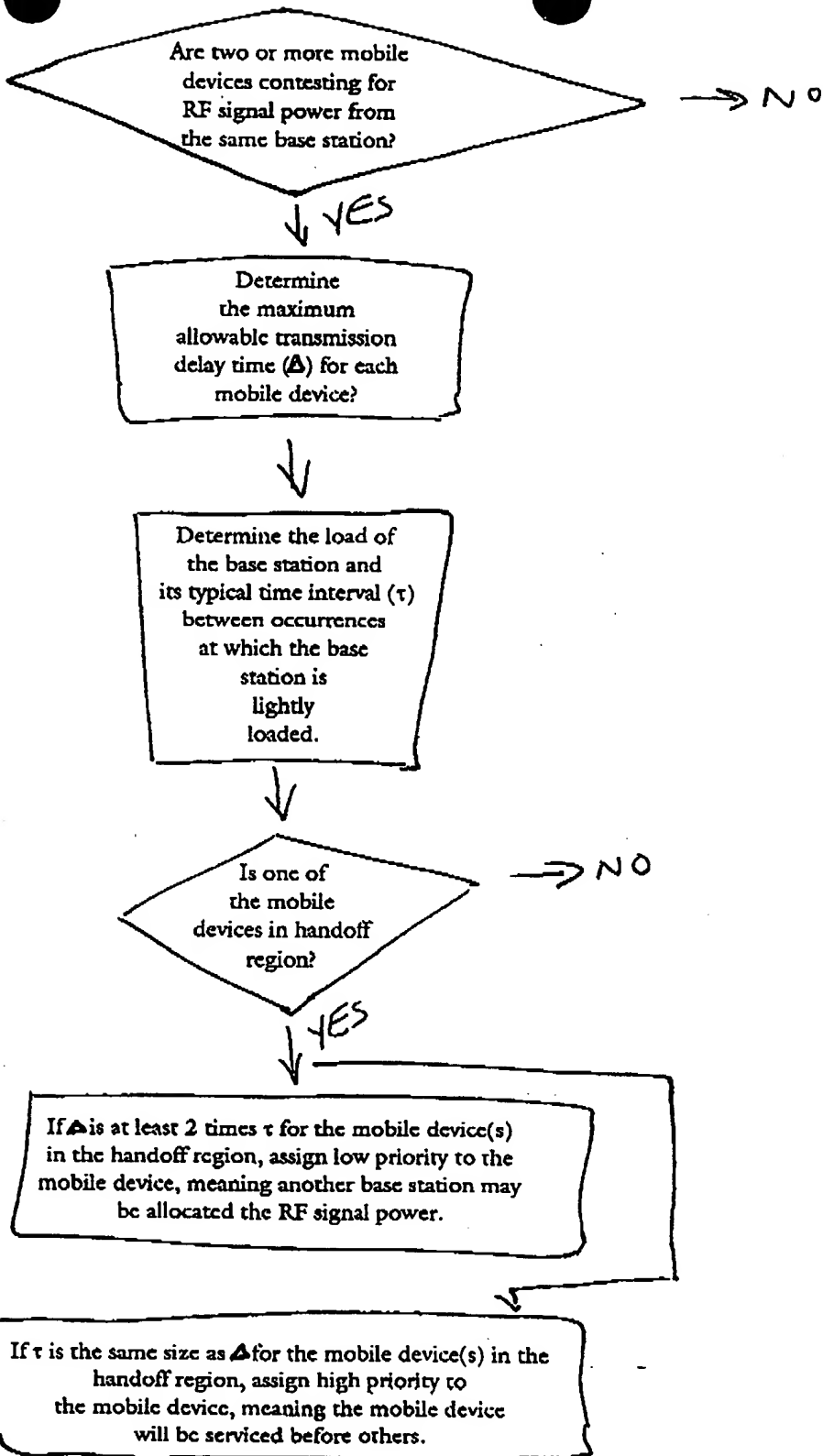


FIG. 5(c)

602

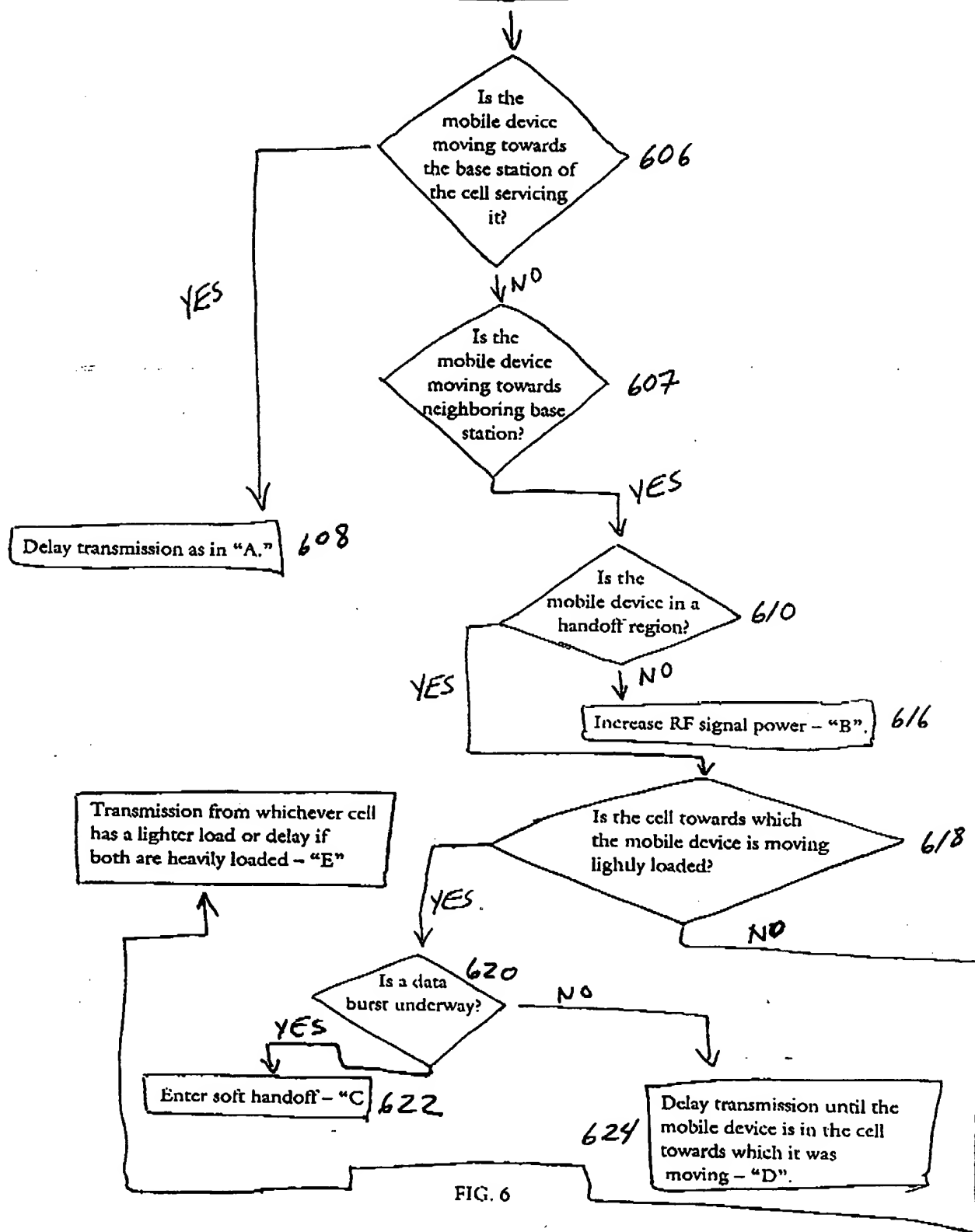


FIG. 6